



**Division of Agricultural Economics**  
**ICAR-Indian Agricultural Research Institute**  
**New Delhi-110012**

**NAHEP Sponsored Training Program**

on

**Advanced Research Methods and Essential Skills for Social Sciences**  
**(12<sup>th</sup> to 22<sup>nd</sup> December, 2022)**

**LECTURE SCHEDULE**

**Tea Break:** 11.00 to 11.30 Hrs. and 15:30 to 16.00 Hrs.

**Lunch Break:** 13.00 to 14.00 Hrs.

Day	Date & Time	Topic of Lecture/Practical	Speaker
<b>1</b>	<b>12-12-2022</b>	<b>Monday</b>	
	9:15-11:00	Registration & Interaction with participants	Coordinators
	11:30-13:00	Emerging paradigms in social science research	Dr. Alka Singh Head, Div. of Agril. Econ., ICAR-IARI
	14:00-15:30	Basic statistical methods and sampling techniques for social sciences	Dr. Girish Kumar Jha PS., Agril. Statistics, ICAR-IARI.
	16:00-17:30	Inaugural Session	Dr. C. Viswanathan, JD (Research) & PI, NAHEP-CAAST, ICAR-IARI
<b>2</b>	<b>13-12-2022</b>	<b>Tuesday</b>	
	9:30-11:00	Introduction to R & Regression analysis and diagnostics using R	Dr. Ranjit Kumar Paul SS, Agril. Statistics, ICAR-IASRI.
	11:30-13:00	Introduction to STATA for handling large data sets – Descriptive statistics and regression analysis	Dr. Asha Devi S.S. Scientist, Agril. Econ., ICAR-IARI
	14:00-15:30	Qualitative response models- Logit and Probit using STATA	Dr. P. Venkatesh SS, Agril. Econ., ICAR-IARI
	16:00-17:30	Mapping scientific literature in social sciences- An application of bibliometric analysis	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
<b>3</b>	<b>14-12-2022</b>	<b>Wednesday</b>	
	9:30-11:00	Introduction to time series analysis	Dr. Girish Kumar Jha PS., Agril. Statistics, ICAR-IARI.
	11:30-13:00	Application of forecasting methods in social science research	Dr. Achal Lama. Scientist, Agril. Stat., ICAR-IASRI
	14:00-15:30	Long memory forecast using ARFIMA model	Dr. Chiranjit Mazumder Scientist, Agril. Stat., ICAR-IARI
	16:00-17:30	Application of cointegration in social science research	Dr. Rajeev Ranjan Kumar Scientist, Agril. Stat., ICAR-IASRI
<b>4</b>	<b>15-12-2022</b>	<b>Thursday</b>	
	9:30-11:00	Introduction to mapping using QGIS- Creating study area maps and choropleth maps	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	11:30-13:00	Spatial data analysis- spatial autocorrelation, clusters and hotspot using ArcGIS	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	14:00-15:30	Introduction to impact assessment methods and tools	Mr. Aditya K.S. Scientist, Agril. Econ., ICAR- IARI.
	16:00-17:30	Difference in Difference analysis- when to apply and how?	Dr. Sunil Saroj IFPRI, South Asia
<b>5</b>	<b>16-12-2022</b>	<b>Friday</b>	
	9:30-11:00	Propensity Score Matching and Coarsened Exact Matching for measuring impact	Mr. Aditya K.S. Scientist, Agril. Econ., ICAR- IARI.

	11:30-13:00	Endogenous Switching Regression Model for impact assessment	Dr. Suresh Kumar Scientist, ICAR-CSSRI, Karnal
	14:00-15:30	Application of meta-frontier approach under heterogeneity in technology	Dr. Suresh Kumar Scientist, ICAR-CSSRI, Karnal
	16:00-17:30	Synthetic Control Method for impact assessment	Prabhat Kishore. Scientist, ICAR-NIAP
	17.30-18.00	Mid-term appraisal for participants feedback	Organizers
<b>6</b>	<b>17-12-2022</b>	<b>Saturday</b>	
	9:30-11:00	An introduction to synthesizing evidence from literature: Systematic review and meta-analysis	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	11:30-13:00	Panel data regression analysis	Dr. Elumalai Kannan. Associate Professor, JNU
	14:00-15:30	Extraction of NSS data for research in social sciences	Dr. Asha Devi S.S. Scientist, Agril. Econ., ICAR-IARI
	16:00-17:30	Contingent valuation method for non-market goods	Dr. P. Venkatesh SS, Agril. Econ., ICAR-IARI
	<b>18-12-2022</b>	<b>Sunday</b>	<b>Holiday</b>
<b>7</b>	<b>19-12-2022</b>	<b>Monday</b>	
	9:30-11:00	Introduction to Qualitative data analysis	Mr. Aditya K.S. Scientist, Agril. Econ., ICAR- IARI.
	11:30-13:00	Thematic analysis and content analysis for qualitative research in social sciences	Dr. Bhuvana N. Consultant, CRISP
	14:00-15:30	Qualitative data analysis using NVIVO	Dr. Bhuvana N. Consultant, CRISP
	16:00-17:30	Visit to Drone lab, Phenomics facility	Organizers
<b>8</b>	<b>20-12-2022</b>	<b>Tuesday</b>	
	9:30-11:00	Application of structural equation modeling (SEM)	Dr. Sitaram Bishnoi. Scientist, Agril. Extn., ICAR-IARI
	11:30-13:00	Personality development- Understanding inner and outer self	Dr. Girijesh Singh Mahra Scientist, Agril. Extn., ICAR-IARI
	14:00-15:30	Designs for Social Research	Dr. R.N. Padaria. JD(Extn.), ICAR-IARI
	16:00-17:30	Structural break analysis- Hands on exercise using STATA	Dr. P. Anbukkani SS, Agril. Econ., ICAR-IARI
<b>9</b>	<b>21-12-2022</b>	<b>Wednesday</b>	
	9:30-11:00	Introduction to scientific writing, layout and designing of visuals	Dr. R. Roy Burman PS, Agril. Extn. ICAR- IARI.
	11:30-13:00	Communication skills for effective presentations	Dr. Girijesh Singh Mahra Scientist, Agril. Extn., ICAR-IARI
	14:00-15:30	Utilizing software for managing references in scientific writing- Demonstration using Mendeley	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	16:00-17:30	Visit to CPCT, Integrated Farming System	Organizers
<b>10</b>	<b>22-12-2022</b>	<b>Thursday</b>	
	9:30-11:00	Application of Analytic Hierarchy Process in Social Science Research	Dr. Misha Madhavan Scientist, Agril. Extn., ICAR-IARI
	11:30-13:00	Conjoint analysis & Choice experiment for analysing the preferences	Dr. Praveen K.V. Scientist, Agril. Econ., ICAR-IARI
	14:00-15:30	Final appraisal of the training & Interaction with participants- feedback and suggestions	Coordinators
	16:00-17:30	Valedictory session	NAHEP Core team